# First Grade - Mathematics

Kentucky Core Academic Standards with Targets





Grade Level/ Co	ourse: 1 <sup>st</sup> Grade
Standard with code:	1.OA.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem. <sup>2</sup>
	<sup>2</sup> See Common Core State Standards Glossary, Table 1.
Domain:	Operations and Algebraic Thinking
Cluster:	Represent and solve problems involving addition and subtraction.
Туре:I	KnowledgeXReasoningPerformance SkillProduct

Knowledge Tar	gets	Reasoning Targe	ets			Performance	e Skills Targets	Product Targets
Use a symbol for number in an acc subtraction pro within 20	er in an addition or within 20 oction problem			d		J		
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		end to cision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Standard with code:	1.OA.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.										
Domain:	Operations and Algebraic Thinking										
Cluster:	Represent and s	olve problems in	volving addition	and subtraction.	•						
Туре:	Knowledge _	XReasoning	gPerfo	ormance Skill		Product					
Know how to a numbers whos than or equal t		•	blems that call fo								
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		nd to ision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.			

Grade Level/ Co	Grade Level/ Course: 1 <sup>st</sup> Grade								
Standard with code:	th 1.OA.3 Apply properties of operations as strategies to add and subtract. Examples: If 8 + 3 = 11 is known, then 3 + 8 = 11 is also known. (Commutative property of addition.) To add 2 + 6 + 4, the second two numbers can be added to make a ten, so 2 + 6 + 4 = 2 + 10 = 12. (Associative property of addition.)  3 Students need not use formal terms for these properties.								
Domain:	Operations and Algebraic Thinking								
Cluster:	Understand and apply properties of operations and the relationship between addition and subtraction.								
Type:I	KnowledgeXReasoningPerformance SkillProduct								

Knowledge Targ	ets	Reasoning Targe	Reasoning Targets				e Skills Targets	<b>Product Targets</b>
Explain how pro	operties of	Apply strategie		es of operations to problems.	D			J
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		nd to ision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	Level/ Course: 1 <sup>st</sup> Grade									
Standard with code:	1.OA.4 Understand subtraction as an unknown-addend problem. For example, subtract 10 – 8 by finding the number that makes 10 when added to 8.									
Domain:	Operations and Algebraic Thinking									
Cluster:	Understand and apply properties of operations and the relationship between addition and subtraction.									
Type:k	KnowledgexReasoningPerformance SkillProduct									

Knowledge Tar	gets	Reasoning Targe	ets		Perfo	rmance Skills Targets	Product Targets
<u> </u>	Identify the unknown in a subtraction problem		n problems to find	the missing adden	d.		
		Explain the relationship of addition and subtraction.					
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.	Attend to precision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	Grade Level/ Course: 1 <sup>st</sup> Grade							
Standard with code:	1.OA.5 Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).							
Domain:	Operations and Algebraic Thinking							
Cluster:	Add and subtract within 20.							
Туре: К	nowledge X_ReasoningPerformance SkillProduct							

Knowledge Tar	gets	Reasoning Targe	Reasoning Targets				e Skills Targets	<b>Product Targets</b>
	ount on and count		nting on and coun	ting back relate to			ÿ	
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		end to cision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	urse (HS): 1 <sup>st</sup> Grade	2								
Standard with code:	1.OA.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8+6=8+2+4=10+4=14$ ); decomposing a number leading to a ten (e.g., $13-4=13-3-1=10-1=9$ ); using the relationship between addition and subtraction (e.g., knowing that $8+4=12$ , one knows $12-8=4$ ); and creating equivalent but easier or known sums (e.g., adding $6+7$ by creating the known equivalent $6+6+1=12+1=13$ ).									
Domain:	Operations and Alg	gebraic Thinking								
Cluster:	Add and Subtract v	within 20.								
Type:K	(nowledge X	KReasoning	Performa	ince Skill	Product					
Knowledge Targ	ets	Reasoning Targe	ts		Performance	e Skills Targets	Product Targets			
Add fluently within 10.  Subtract fluently within 10.		Apply strategies	s to add and subt	ract within 20.						
	1			·	1.		1: 16			
Make sense of	Reason abstractly	Construct viable	Model with	Use appropriate	Attend to	Look for and make	Look for and			

tools strategically.

precision.

express regularity

in repeated

reasoning.

use of structure.

problems and

persevere in

solving them.

and quantitatively.

arguments and

critique the reasoning of others.

mathematics.

Grade Level/ Co	rade Level/ Course: 1 <sup>st</sup> Grade							
Standard with code:	1.OA.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$ , $7 = 8 - 1$ , $5 + 2 = 2 + 5$ , $4 + 1 = 5 + 2$ .							
Domain:	Operations and Algebraic Thinking							
Cluster:	Work with addition and subtraction equations.							
Туре:	KnowledgeXReasoningPerformance SkillProduct							

Knowledge Tar	gets	Reasoning Targets				erformance S	Skills Targets	Product Targets
Explain the mea	Explain the meaning of an equal ign (the quantity on each side of he equality symbol is the same).  Compare the values on each side of an equal sign.  Determine if the equation is true or false.				Pe	eriormance	skiiis Targets	Product Targets
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.	Attend t		Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	ourse: 1 <sup>st</sup> Grade
Standard with code:	1.OA.8 Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$ , $5 = " - 3$ , $6 + 6 = "$ .
Domain:	Operations and Algebraic Thinking
Cluster:	Work with addition and subtraction equations.
Туре:I	KnowledgeXReasoningPerformance SkillProduct

Knowledge Targe	ets	Reasoning Targe	ets			Performance	Skills Targets	<b>Product Targets</b>
Recognize part-p	art-whole	Determine the m	nissing value in an	addition or				
relationships of t	hree whole	subtraction equa	ation by using a va	riety of strategies.				
numbers								
represent the	nce the 3 and 5 e parts and the 8 oresentative of							
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.	Atten		Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	Grade Level/ Course (HS): 1 <sup>st</sup> Grade						
Standard with code:	1.NBT.1 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.						
Domain:	Numbers and Operations in Base Ten						
Cluster:	Extend the counting sequence						
Type:k	KnowledgeReasoningXPerformance SkillProduct						

Knowledge Tar	Knowledge Targets		Reasoning Targets				e Skills Targets	<b>Product Targets</b>
Write numera	ls up to 120.		ımber of objects	up to 120 with a		Count (sayi number sec 120, startin number les Read the nu 120.	quence) to g at any	j
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.	Atter preci		Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	ourse (HS): 1 <sup>st</sup> Grade
Standard with code:	1.NBT.2abc Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:  a. 10 can be thought of as a bundle of ten ones — called a "ten."  b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.  c. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).
Domain:	Number and Operations in Base Ten
Cluster:	Understand place value.
Туре:	Knowledge X_ReasoningPerformance SkillProduct

Knowledge Targe	ets	Reasoning Targets				Performance	Skills Targets	Product Targets
Explain what e two-digit num		Represent num	nbers 11 to 19 as mber of ones. numbers 20, 30,	composed of a te	,			
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		end to cision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	Grade Level/ Course: 1 <sup>st</sup> Grade						
Standard with code:	1.NBT.3 Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.						
Domain:	Number and Operations in Base Ten						
Cluster:	Understand place value.						
Туре:I	KnowledgeXReasoningPerformance SkillProduct						

Knowledge Targ	Knowledge Targets Reasoning Targets				Performance	e Skills Targets	<b>Product Targets</b>	
Identity the valu represented in t number.	•	Compare two two-digit numbers based on meanings of the tens and ones digits.						
Know what each represents >, <,	•	Use >, =, and < so comparisons.	ymbols to record t	he results of				
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		end to cision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	Grade Level/ Course: 1 <sup>st</sup> Grade							
Standard with code:	1.NBT.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.							
Domain:	Number and Operations							
Cluster:	Use place value understanding and properties of operations to add and subtract.							
Type:I	Type:KnowledgeXReasoningPerformance SkillProduct							

Knowledge Targets Reasoning Targets					Performance	e Skills Targets	Product Targets	
Identify the value of each digit of a number within 100.			Choose an appropriate strategy for solving an addition or subtraction problem within 100.					
Decompose any one hundred in one(s).	number within to ten(s) and	drawings and str of operations, ar and subtraction) explain the reaso Use composition	Relate the chosen strategy (using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction) to a written method (equation) and explain the reasoning used.  Use composition and decomposition of tens when necessary to add and subtract within 100.					
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		end to cision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	Grade Level/ Course: 1 <sup>st</sup> Grade						
Standard with code:	1.NBT.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.						
Domain:	Number and Operations in Base Ten						
Cluster:	Use place value understanding and properties of operations to add and subtract.						
Туре:I	KnowledgeX_ReasoningPerformance SkillProduct						

Knowledge Tar	gets	Reasoning Targets				Performance	Skills Targets	<b>Product Targets</b>
Identify the val number within	Apply knowledge of place value to mentally add or subtract 10 to/from a given two digit number.  Explain how to mentally find 10 more or 10 less than the given two-digit number.					_		
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		end to cision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	ourse: 1 <sup>st</sup> Grade
Standard with code:	1.NBT.6 Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.
Domain:	Number and Operations in Base Ten
Cluster:	Use place value understanding and properties of operations to add and subtract.
Туре:	KnowledgeX_ReasoningPerformance SkillProduct

Knowledge Targ	ets	Reasoning Targe	ets			Performance	e Skills Targets	<b>Product Targets</b>
Identify the valu number within 1	e of each digit of a .00.	multiples of 10 in differences).  Choose appropri drawings and str of operations, ar and subtraction) multiples of 10.  Relate the chose	iate strategy (conc rategies based on p nd/or the relations	PO (positive or zero rete models or place value, proper hip between additi action problems wit	ties ion			
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		nd to ision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/Cour	se: 1 <sup>st</sup> Grade						
Standard with	1.MD.1 Order	MD.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.					
Code:							
Domain:	Measurement	and Data					
Cluster:	Measure lengt	hs indirectly and b	y iterating length	units.			
Type:Know	vledge <u>X</u> Rea	soning Per	formance Skill _	Product			
Knowledge Target	ts	Reasoning Targe	ts	Performance Skil	l Targets	<b>Product Targets</b>	
Identify the mea	surement	Order three obj	ects by length				
known as the ler	ngth of an						
object		Compare the le	ngths of two				
		objects indirect	ly by using a				
Directly compare	e the length of	third object to o	compare them				
three objects.	_	(e.g., if the leng	th of object A is				
·		greater than the length of					
		object B, and the length of					
		object B is great	•				
		length of object					
		length of object					
		-	_				
		than the length of object C.)					
Make sense of	Reason abstractly	Construct viable	Model with	Use appropriate	Attend to	Look for and make	Look for and
problems and	and quantitatively.	arguments and	mathematics.	tools strategically.	precision.	use of structure.	express regularity
persevere in	,	critique the					in repeated
solving them.		reasoning of					reasoning.
		others.					

Standard with	-	1.MD.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object						
Code:	1 .	it) end to end; und		_	•		_	
	•	n it with no gaps or gth units with no g	•	contexts where ti	ne object being m	easurea is spanne	d by a whole	
Domain:	Measurement	-	aps or overlaps.					
Cluster:	Measure lengt	hs indirectly and b	y iterating length	units.				
Type:Kno	wledgeRe	asoning <u>X</u> Po	erformance Skill	Product				
Knowledge Targe	ets	Reasoning Targets		Performance Skil	l Targets	Product Targets		
Knows to use th	e same size	Compare a smaller unit of		Demonstrate th	е			
non-standard ol	ojects as	measurement to a larger object		measurement o	f an object			
iterated (repeat	ing) units	1		using non-stand	, -			
		Determine the length of the		paper clips, unifix cubes, etc.)				
Know that lengt		measured object to be the		by laying the units of				
measured with	various units	number of smaller iterated		measurement end to end with				
		(repeated) objects that equal		no gaps or overlaps				
		its length						
Make sense of	Reason abstractly	Construct viable	Model with	Use appropriate	Attend to	Look for and make	Look for and	
problems and	and quantitatively.	arguments and	mathematics.	tools strategically.	precision.	use of structure.	express regularit	
persevere in solving them.		critique the reasoning of					in repeated reasoning.	
<b>0</b>		others.					3 3 3	

st							
<u> </u>							
1.MD.3 Tell an	1.MD.3 Tell and write time in hours and half-hours using analog and digital clocks.						
Measurement	and Data						
Tell and write t	ime.						
geReaso	ning <u>X</u> Perfo	rmance Skill	Product				
i	Reasoning Target	ts	Performance Skil	l Targets	<b>Product Targets</b>		
log and digital	Determine where	the minute	Tell/Write the tim	ne to the hour			
hat measure	hand must be wh	en the time is to	and half hour cor	rectly using			
	the hour (o'clock)	).	analog and digital	l clocks – for			
	1	1	instance when it i	is 3:30 the hour			
nd minute hand			hand is between t	the 3 and the 4;			
ween the two.	hand must be when the time is to		the minute hand is on the 6.				
	the half hour (thirty).			ļ			
	1	'					
	1	'					
	1	'					
	1	1		ļ			
	1	1		ļ			
	1	'					
	1	1					
	1	1					
	1	1					
	1	1		ļ			
Reason abstractly	Construct viable	Model with	Use appropriate	Attend to	Look for and make	Look for and	
nd quantitatively.	_	mathematics.	tools strategically.	precision.	use of structure.	express regularity	
	·				i I	in repeated reasoning.	
	others.			ļ		reasoning.	
i la h	Measurement  Tell and write to geReason og and digital mat measure  d minute hand ween the two.	1.MD.3 Tell and write time in ho  Measurement and Data  Tell and write time.  geReasoningX_Performulation Reasoning Target and must be where the hour (o'clock) and minute hand ween the two.  Determine where the hand must be where the hand must be where the half hour (think the half hour (think the half hour (think the half hour) arguments and critique the reasoning of	Measurement and Data  Tell and write time.  geReasoningX_Performance Skill Reasoning Targets  Og and digital nat measure  Determine where the minute hand must be when the time is to the hour (o'clock).  Determine where the minute hand must be when the time is to the half hour (thirty).  Determine where the minute hand must be when the time is to the half hour (thirty).	1.MD.3 Tell and write time in hours and half-hours using analog and  Measurement and Data  Tell and write time.  Tell and write time.  Tell and write time.  Tell and write time.  ReasoningX_Performance SkillProduct  Reasoning Targets	1.MD.3 Tell and write time in hours and half-hours using analog and digital clocks.  Measurement and Data  Tell and write time.  Product  Performance SkillProduct  Performance Skill Targets  Determine where the minute hand must be when the time is to the hour (o'clock).  Determine where the minute hand must be when the time is to the half hour (thirty).  Determine where the minute hand is between the 3 and the 4; the minute hand is on the 6.	1.MD.3 Tell and write time in hours and half-hours using analog and digital clocks.  Measurement and Data  Tell and write time.  geReasoningX_Performance SkillProduct  Reasoning Targets	

Grade Level/ Co	ourse (HS): 1 <sup>st</sup> Grade					
Standard with code:	.MD.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total umber of data points, how many in each category, and how many more or less are in one category than in another.					
Domain:	Measurement and Data					
Cluster:	Represent and interpret data.					
Туре:I	Knowledge X Reasoning Performance Skill Product					

Knowledge Targ	ets	Reasoning Targe	ets		Performance	e Skills Targets	<b>Product Targets</b>
Recognize diffe organize data	rent methods to	Organize data v	with up to three o	categories			
		Represent data	with up to three	e categories			
Recognize diffe	rent methods to						
Recognize different methods to represent data		•	representation by	, ,			
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.	 nd to ision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.

Grade Level/ Co	ourse (HS): 1 <sup>st</sup> Grade
Standard with code:	1.G.1 Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.
Domain:	Geometry
Cluster:	Reason with shapes and their attributes.
Туре:К	nowledgeReasoningPerformance SkillX_Product

Knowledge Targe	ets	Reasoning Targets			Performance Skills 1	Targets	Produ	ct Targets
Identify defining	g attributes of	_	ween (compare/	*				shapes to show
shapes.		defining and no shapes.	defining and non-defining attributes of shapes.				defini	ng attributes.
Identify non-de	fining attributes						Draw	shapes to show
of shapes.							defini	ng attributes.
Make sense of	Reason	Construct viable	Model with	Lisa annronriata	Attend to	Look for a	nd	Look for and
problems and	abstractly and	arguments and	mathematics.	Use appropriate tools	precision.	make use		express
persevere in	quantitatively.	critique the		strategically.		structure.		regularity in
solving them.		reasoning of others.						repeated reasoning.

Grade Level/	Course (HS): 1 <sup>st</sup> Grade					
Standard with code:	1.G.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape. <sup>4</sup> Students do not need to learn formal names such as "right rectangular prism."					
Domain:	Geometry					
Cluster:	Reason with shapes and their attributes.					
Туре:	KnowledgeReasoningPerformance SkillXProduct					

Knowledge Targe	ets	Reasoning Targe	ets		Performance Skills	<b>Fargets</b>	Produ	ct Targets
Know that shapes can be composed and decomposed to make new shapes		Determine how the original and created composite shapes are alike and different					Create shape	e composite s
make new shapes  Describe properties of original and composite shapes							shape	ose new s from a osite shape
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically	Attend to precision.	Look for an use of struc		Look for and express regularity in repeated reasoning.

Grade Level/ Co	Grade Level/ Course (HS): 1 <sup>st</sup> Grade						
Standard with code:	1.G.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths and quarters, and use the phrases half of, fourth of and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.						
Domain:	Geometry						
Cluster:	Reason with shapes and their attributes.						
Туре:	Knowledge X Reasoning Performance Skill Product						

Knowledge Targets		Reasoning Targets				Performanc	e Skills Targets	Product Targets
Identify when shares are equal		Justify why dividing, (decomposing) a circle or rectangle						
Identify two and four equal shares		into more equal shares creates smaller pieces.						
Describe equal shares using vocabulary: halves, fourths and quarters, half of, fourth of, and quarter of								
Describe the whole as two of two or four of four equal shares								
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively.	Construct viable arguments and critique the reasoning of others.	Model with mathematics.	Use appropriate tools strategically.		nd to ision.	Look for and make use of structure.	Look for and express regularity in repeated reasoning.